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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
09/904,126	07/12/2001	Feipeng Liu	00-425	1688
75	590 10/02/2002			
D. Mitchell Goodrich, Esq.			EXAMINER	
J.M. Huber Cor 333 Thomall St	reet		BISSETT, MELANIE D	
Edison, NJ 08837-2220			ART UNIT	PAPER NUMBER
			1711	3
		DATE MAILED: 10/02/2002		

Please find below and/or attached an Office communication concerning this application or proceeding.

	Application No.	Applicant(s)				
	09/904,126	LIU ET AL.				
Office Action Summary	Examiner	Art Unit				
	Melanie D. Bissett	1711				
The MAILING DATE of this communication appears on the cover sheet with the correspondence address Period for Reply						
A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) FROM THE MAILING DATE OF THIS COMMUNICATION. - Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication. - If the period for reply specified above is less than thirty (30) days, a reply within the statutory minimum of thirty (30) days will be considered timely. - If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication. - Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133). - Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b). Status						
1) Responsive to communication(s) filed on						
·— ·	is action is non-final.					
3)☐ Since this application is in condition for allowa		rosecution as to the merits is				
closed in accordance with the practice under <i>Ex parte Quayle</i> , 1935 C.D. 11, 453 O.G. 213. Disposition of Claims						
4)⊠ Claim(s) <u>1-20</u> is/are pending in the application.						
4a) Of the above claim(s) 13-20 is/are withdrawn from consideration.						
5) Claim(s) is/are allowed.						
6)⊠ Claim(s) <u>1-12</u> is/are rejected.						
7) Claim(s) is/are objected to.						
8) Claim(s) are subject to restriction and/o	r election requirement.					
Application Papers						
9) The specification is objected to by the Examiner.						
10)☐ The drawing(s) filed on is/are: a)☐ accepted or b)☐ objected to by the Examiner.						
Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).						
11) The proposed drawing correction filed on is: a) approved b) disapproved by the Examiner.						
If approved, corrected drawings are required in reply to this Office action.						
12)☐ The oath or declaration is objected to by the Examiner.						
Priority under 35 U.S.C. §§ 119 and 120						
13) Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).						
a) ☐ All b) ☐ Some * c) ☐ None of:						
 Certified copies of the priority documents have been received. 						
2. Certified copies of the priority documents have been received in Application No						
 3. Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)). * See the attached detailed Office action for a list of the certified copies not received. 						
14) Acknowledgment is made of a claim for domestic priority under 35 U.S.C. § 119(e) (to a provisional application).						
a) The translation of the foreign language provisional application has been received. 15) Acknowledgment is made of a claim for domestic priority under 35 U.S.C. §§ 120 and/or 121.						
Attachment(s)						
1) Notice of References Cited (PTO-892) 2) Notice of Draftsperson's Patent Drawing Review (PTO-948) 3) Information Disclosure Statement(s) (PTO-1449) Paper No(s) 2. 4) Interview Summary (PTO-413) Paper No(s) Notice of Informal Patent Application (PTO-152) 6) Other:						
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DETAILED ACTION

Election/Restrictions

- 1. Restriction to one of the following inventions is required under 35 U.S.C. 121:
 - Claims 1-12, drawn to a wood composite, classified in class 525, subclass
 410.
 - II. Claims 13-20, drawn to a method for making a strand board composite, classified in class 427, subclass 222.
- 2. The inventions are distinct, each from the other because of the following reasons:
- 3. Inventions II and I are related as process of making and product made. The inventions are distinct if either or both of the following can be shown: (1) that the process as claimed can be used to make other and materially different product or (2) that the product as claimed can be made by another and materially different process (MPEP § 806.05(f)). In the instant case the wood composite can be made by combining the components without crosslinking them or by coating wood strands or flakes without a wax substance.
- 4. Because these inventions are distinct for the reasons given above and have acquired a separate status in the art as shown by their different classification, restriction for examination purposes as indicated is proper.
- 5. During a telephone conversation with D. Mitchell Goodrich on 9/25/02 a provisional election was made with traverse to prosecute the invention of I, claims 1-12. Affirmation of this election must be made by applicant in replying to this Office action.

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Claims 13-20 are withdrawn from further consideration by the examiner, 37 CFR 1.142(b), as being drawn to a non-elected invention.

6. Applicant is reminded that upon the cancellation of claims to a non-elected invention, the inventorship must be amended in compliance with 37 CFR 1.48(b) if one or more of the currently named inventors is no longer an inventor of at least one claim remaining in the application. Any amendment of inventorship must be accompanied by a request under 37 CFR 1.48(b) and by the fee required under 37 CFR 1.17(i).

Claim Rejections - 35 USC § 102

7. The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless -

- (b) the invention was patented or described in a printed publication in this or a foreign country or in public use or on sale in this country, more than one year prior to the date of application for patent in the United States.
- 8. Claims 1-11 are rejected under 35 U.S.C. 102(b) as being anticipated by Lo et al. Lo et al. (USPN 5,143,989 A) can be found on the applicant's Form PTO-1449.
- 9. Lo discloses molded hardboard impregnated with a phosphorus-containing phenolic resin (col. 1 lines 5-10), where the phosphorus material is preferably Fyrol 6, a diethyl-N,N-bis(2-hydroxyethyl) aminomethyl phosphonate that reacts with phenol-formaldehydes to become chemically bound (col. 1 lines 41-63). Thus, because the reference teaches the components reacting, the reference suggests the formation of crosslinks between the organophosphorus ester and the polymer chains. Wood composites include fiberboard, particleboard, plywood, natural wood, and cardboard

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(col. 2 lines 25-30). The phenolic resin and phosphonate compound are used in amounts of 3-16% by weight and 1-10% by weight, respectively (col. 3 lines 30-33). Regarding claim 10, Lo does not seem to show the applicant's claimed properties. However, because Lo uses the same materials as those found in the applicant's examples, it is the examiner's position that the wood composites of Lo's invention would inherently possess the applicant's claimed properties.

Claim Rejections - 35 USC § 103

- 10. The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:
 - (a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.
- 11. Claim 12 is rejected under 35 U.S.C. 103(a) as being unpatentable over Lo et al. in view of Newman et al.
- 12. Lo et al. applies as above, teaching wood composites such as fiberboard, particleboard, plywood, natural wood, and cardboard but failing to specifically mention oriented strand boards or flakeboards. Newman discloses wood composites made from cellulosic fibers including fiberboard, particleboard, plywood, oriented strand board, and waferboard (abstract). Oriented strand boards are made by adhering strips of wood together and must have sufficient modulus of rupture, modulus of elasticity, and internal bonding properties (col. 13 lines 25-68). Since Lo suggests that any wood composite made of cellulosic fibers can be manufactured, it is the examiner's position that it would

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have been prima facie obvious to form an oriented strand board composite using the techniques of Lo's invention to form a wood composite having improved strength and durability.

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Melanie D. Bissett whose telephone number is (703) 308-6539. The examiner can normally be reached on M-F 8-4:30.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, James Seidleck can be reached on (703) 308-2462. The fax phone numbers for the organization where this application or proceeding is assigned are (703) 872-9310 for regular communications and (703) 872-9311 for After Final communications.

Any inquiry of a general nature or relating to the status of this application or proceeding should be directed to the receptionist whose telephone number is (703) 308-0661.

mdb September 28, 2002 James J. Seidleck
Supervisory Patent Examiner
Technology Center 1700